

PRODUCTION DATA REPORT

✓ Project 1108-13

Supplementary Report Eighteen

to

FOURDRINIER KRAFT BOARD INSTITUTE, INC.

May 1, 1957

THE INSTITUTE OF PAPER CHEMISTRY

Appleton, Wisconsin

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The production data contained herein represent the production of linerboard as reported by the following Fourdrinier Kraft Board Institute member mills for the first quarter of 1957:

The Chesapeake Corporation of Virginia

Continental Can Company, Inc.

Gaylord Container Corporation, Division of Crown Zellerbach Corporation

Georgia Kraft Company

International Paper Company

Owens-Illinois Glass Company, Mill Division

North Carolina Pulp Co. & Kieckhefer Container Co.

Olin Mathieson Chemical Corp., Forest Products Division

St. Joe Paper Company

St. Regis Paper Company

Southern Paperboard Corporation

Union Bag-Camp Paper Corporation

West Virginia Pulp and Paper Company

As in previous reports, the data have been tabulated according to (1) total production by quarters and (2) production by grades by quarters.

The total production for the first quarter of 1957 is given in Table I-A. For purposes of comparison, the total production data for 1954, 1955, and 1956 are also included in Table I-A. The total production data from 1954 to the present are illustrated graphically in Figure 1 by

quarters. Production data for the various grades are shown in Table II for the current quarter, together with the corresponding tonnages for the previous four quarters. In addition, percentage production by grades is given in Table III for the current quarter and the previous four quarters. These figures are based on the total production per quarter computed separately with the miscellaneous figure included and with the miscellaneous figure excluded. The current tonnage data for the major grades--namely, 26 lb., 33 lb., 38 lb., 42 lb., 47 lb., 69 lb., 90 lb., and miscellaneous--are illustrated graphically in Figures 2 through 9, respectively, together with the production for the previous quarters. Also shown in Figures 2 through 9 is the percentage of total production which each grade represents.

In order to give a better perspective of the above data, the tonnages for the major grades have been plotted on a semi-logarithmic scale (see Figure 10) for the purpose of comparing the change in production of these grades. A useful measure is the "percentage change" which is defined as the change in production in tons for the present quarter divided by the tonnage level of the previous quarter. The advantage of semi-log graphs in this case is that the "percentage change" may be compared readily even though the magnitude of the tonnage levels may be vastly different. When two lines are parallel (regardless of magnitude), the "percentage change" of these two items is the same. When two lines are not parallel, the one with the greater (steeper) slope has the higher "percentage change."

There are a number of comparisons which may be of interest.

Some of these are the following:

1. As may be seen in Table I-A, the total production of all grades for the first quarter of 1957 was slightly lower than the corresponding figure for the fourth quarter of 1956. In fact, the total production figure for the first quarter was the lowest quarterly figure since 1955.
2. The tonnages of the major grades are shown on a quarterly basis for 1956 and 1957 to date in Table I-B. Compared with the fourth quarter (1956) production of the corresponding grades, production of 33 lb., 42 lb., 90 lb., and miscellaneous increased whereas production of 26 lb., 38 lb., 47 lb., and 69 lb. decreased.

TABLE I-A

TOTAL TONNAGE OF ALL GRADES

	1954	1955	1956	1957
1st Quarter	720,954	886,487	972,607	932,706
2nd Quarter	770,597	945,631	995,265	
3rd Quarter	765,742	965,247	959,662	
4th Quarter	<u>853,434</u>	<u>959,008</u>	<u>952,295</u>	
Total	3,110,727	3,756,373	3,879,829	

TABLE I-B

TONNAGE OF MAJOR GRADES BY QUARTERS FOR 1956 AND 1957

1956

Grade	1st quarter	2nd quarter	3 rd quarter	4th quarter
26 lb.	81,469	103,099	89,233	105,159
33 lb.	57,527	63,488	55,673	55,573
38 lb.	80,502	74,730	84,882	75,808
42 lb.	435,893	419,538	440,988	397,641
47 lb.	31,235	32,937	31,042	23,200
69 lb.	119,016	115,284	106,722	117,382
90 lb.	44,297	50,820	50,860	50,910
Misc.	90,436	77,131	69,186	74,245

1957

26 lb.	90,748
33 lb.	56,452
38 lb.	73,283
42 lb.	414,657
47 lb.	22,150
69 lb.	107,473
90 lb.	61,268
Misc.	78,240

TABLE II

TOTAL TONNAGE BY GRADE

	26 lb.	27 lb.	28 lb.	30 lb.	31 lb.	32 lb.	33 lb.	35 lb.	36 lb.	37 lb.	38 lb.	40 lb.
1956												
1st quarter	81,469	424	4,290	45	—	893	57,527	—	525	—	80,502	—
2nd quarter	103,099	—	5,949	596	163	575	63,488	—	448	5	74,730	25,863
3rd quarter	89,233	—	2,477	72	—	479	55,673	—	188	—	84,882	—
4th quarter	105,159	—	3,557	1,465	—	605	55,573	—	226	—	75,808	26,033
1957												
1st quarter	90,748	—	2,085	1,426	—	556	56,452	41	418	—	73,283	—
42 lb.	44 lb.	45 lb.	46 lb.	47 lb.	50 lb.	51 lb.	52 lb.	56 lb.	59 lb.	60 lb.	62 lb.	
1956												
1st quarter	435,893	238	19,463	—	31,235	2,991	370	987	176	—	—	219
2nd quarter	419,538	—	20,761	—	32,937	1,485	319	784	102	110	—	—
3rd quarter	440,988	—	18,729	—	31,042	1,945	105	938	151	—	—	325
4th quarter	397,641	—	15,142	61	23,200	870	459	711	40	—	55	—
1957												
1st quarter	414,657	—	19,023	—	22,150	1,371	124	624	—	—	625	—
64 lb.	65 lb.	67 lb.	69 lb.	72 lb.	75 lb.	76 lb.	80 lb.	90 lb.	Miscellaneous			
1956												
1st quarter	145	1,014	—	119,016	—	—	445	7	44,297	90,436		
2nd quarter	—	563	515	115,384	—	—	—	—	50,820	77,131		
3rd quarter	—	1,086	570	109,722	1,000	1,531	281	—	50,580	87,186		
4th quarter	1,034	—	364	117,382	—	—	1,755	—	50,910	77,215		
1957												
1st quarter	—	1,034	—	117,382	—	—	195	—	51,758	78,240		

TABLE III
TOTAL PRODUCTION BY GRADES, PER CENT

	26 lb. Grade		27 lb. Grade		28 lb. Grade		30 lb. Grade		31 lb. Grade		32 lb. Grade		33 lb. Grade		35 lb. Grade		36 lb. Grade	
	With ^a	With- out ^b	With ^a	With- out ^b	With ^a	With- out ^b	With ^a	With- out ^b	With ^a	With- out ^b	With ^a	With- out ^b	With ^a	With- out ^b	With ^a	With- out ^b	With ^a	With- out ^b
1956																		
1st quarter	8.4	9.2	c	c	0.4	0.5	c	c	c	c	0.1	0.1	5.9	6.5	—	—	0.1	0.1
2nd quarter	10.4	11.2	—	—	0.6	0.6	0.1	0.1	c	c	0.1	0.1	6.4	6.9	—	—	c	c
3rd quarter	9.3	10.0	—	—	0.3	0.3	c	c	—	—	c	0.1	5.8	6.3	—	—	c	c
4th quarter	11.0	12.0	—	—	0.4	0.4	0.2	0.2	—	—	0.1	0.1	5.8	6.3	—	—	c	c
1957																		
1st quarter	9.7	10.6	—	—	0.2	0.2	0.2	0.2	—	—	0.1	0.1	6.1	6.6	c	c	c	c
1956																		
1st quarter	—	—	8.3	9.1	—	—	44.8	49.4	c	c	2.0	2.2	—	—	3.2	3.5	0.3	0.3
2nd quarter	c	c	7.5	8.1	2.6	2.8	42.2	45.7	—	—	2.1	2.3	—	—	3.3	3.6	0.1	0.2
3rd quarter	—	—	8.8	9.5	—	—	46.0	49.5	—	—	2.0	2.1	—	—	3.2	3.5	0.2	0.2
4th quarter	—	—	8.0	8.6	2.7	3.0	41.8	45.3	—	—	1.6	1.7	c	c	2.4	2.6	0.1	0.1
1957																		
1st quarter	—	—	7.9	8.6	—	—	44.5	48.5	—	—	2.0	2.2	—	—	2.4	2.6	0.1	0.2
1956																		
1st quarter	c	c	0.1	0.1	c	c	—	—	—	—	c	c	c	c	0.1	0.1	—	—
2nd quarter	c	c	0.1	0.1	c	c	c	c	—	—	—	—	—	—	0.1	0.1	0.1	0.1
3rd quarter	c	c	0.1	0.1	c	c	—	—	—	—	c	c	—	—	0.2	0.2	c	c
4th quarter	c	0.1	0.1	0.1	c	c	—	—	c	c	—	—	0.1	0.1	—	—	c	c
1957																		
1st quarter	c	c	0.1	0.1	—	—	—	—	0.1	0.1	—	—	c	c	0.1	0.1	—	—
1956																		
1st quarter	12.2	13.5	—	—	—	—	c	0.1	c	c	4.6	5.0	9.3					
2nd quarter	11.6	12.6	—	—	—	—	—	—	—	—	5.1	5.5	7.7					
3rd quarter	11.1	12.0	0.2	0.2	0.2	0.2	c	c	—	—	5.3	5.7	7.2					
4th quarter	12.3	13.4	—	—	—	—	0.2	0.2	—	—	5.3	5.8	7.8					
1957																		
1st quarter	11.5	12.6	c	c	—	—	c	c	—	—	6.6	7.2	8.4					

a Percentage based on the total production of all grades including Miscellaneous.
b Percentage based on the total production of all grades excluding Miscellaneous.
c Less than a tenth of a per cent after rounding off.

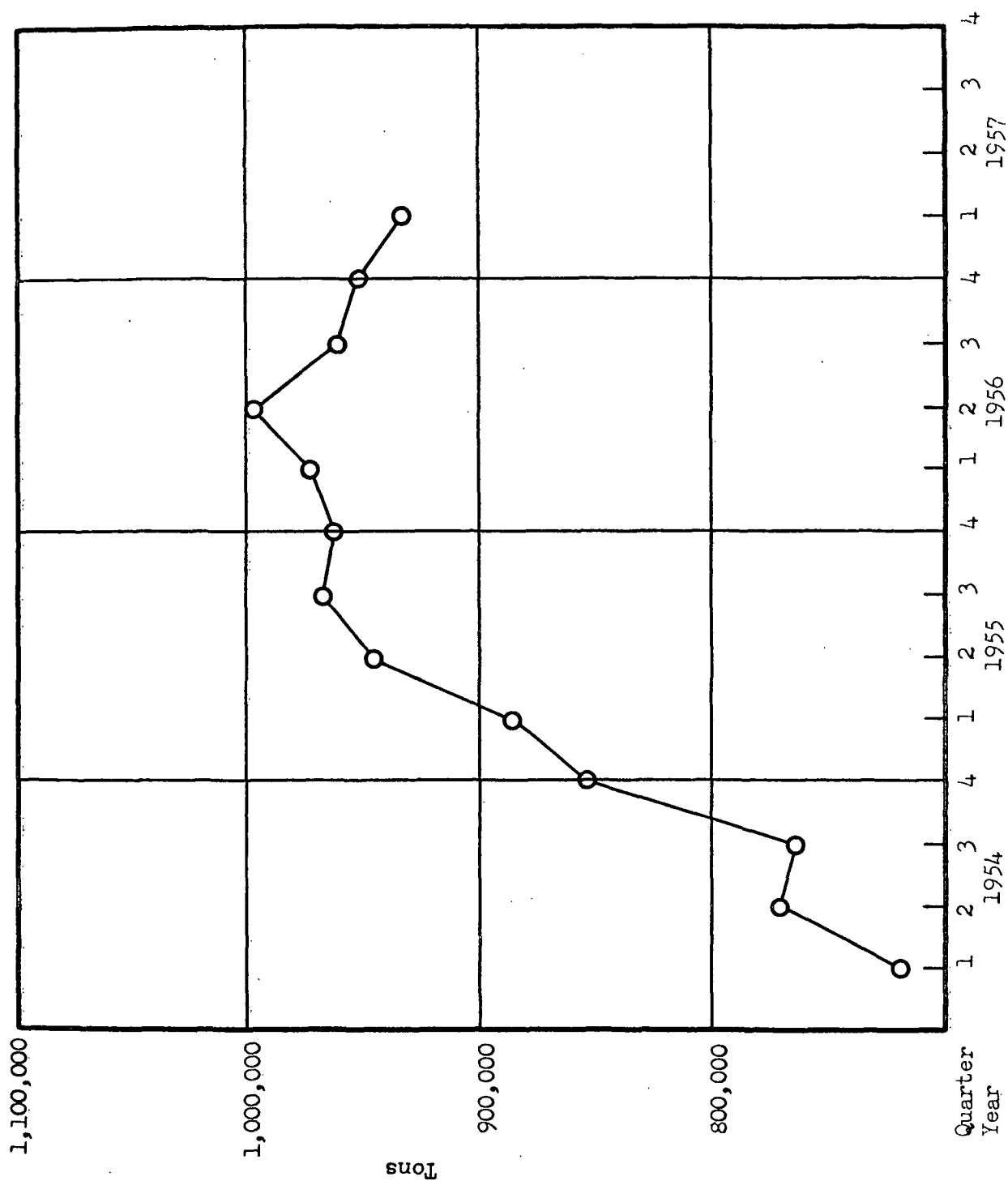


Figure 1. Paper Board Production of All Grades

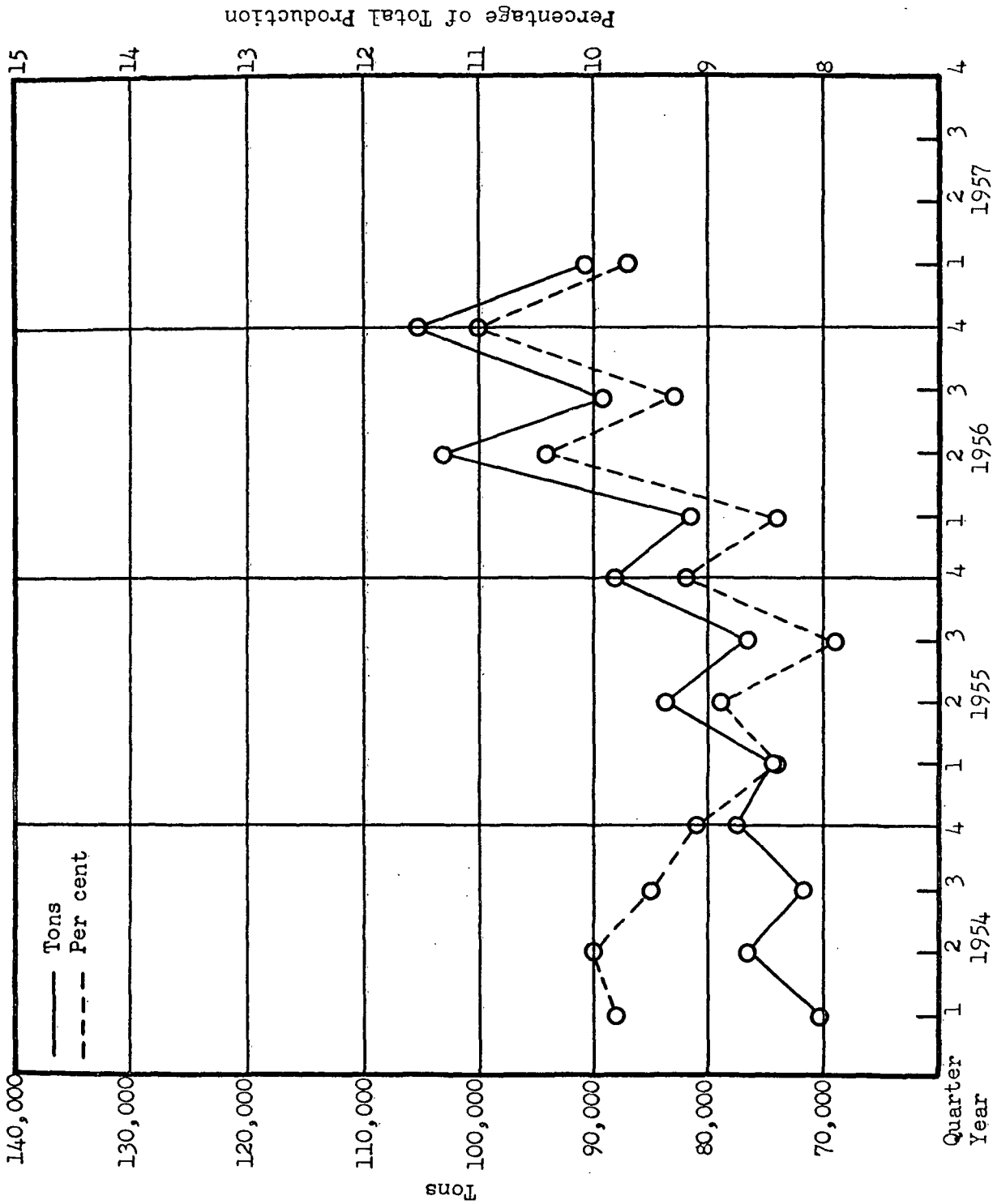


Figure 2. Production, 26-lb.

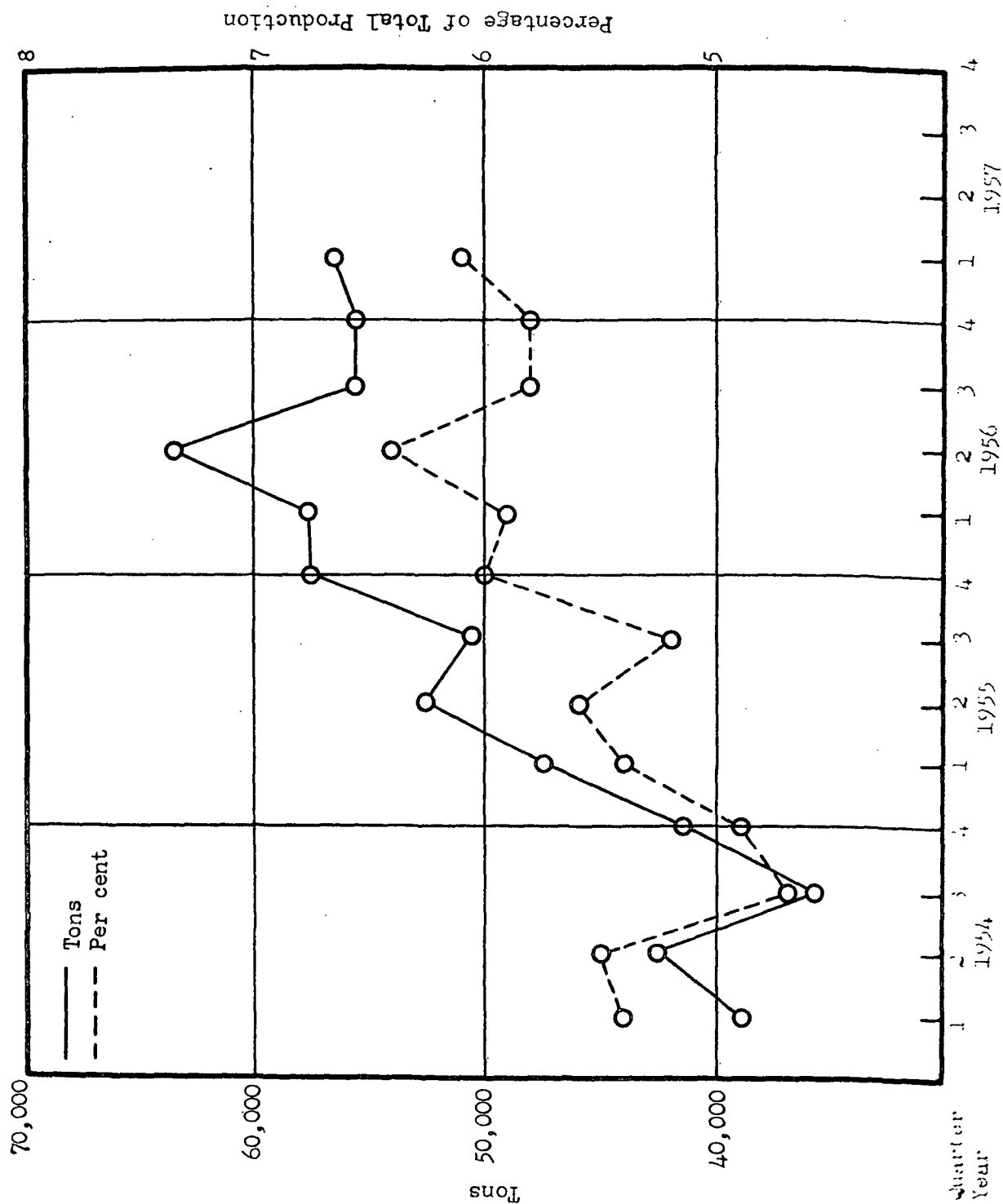


Figure 3. Production, 33-1b.

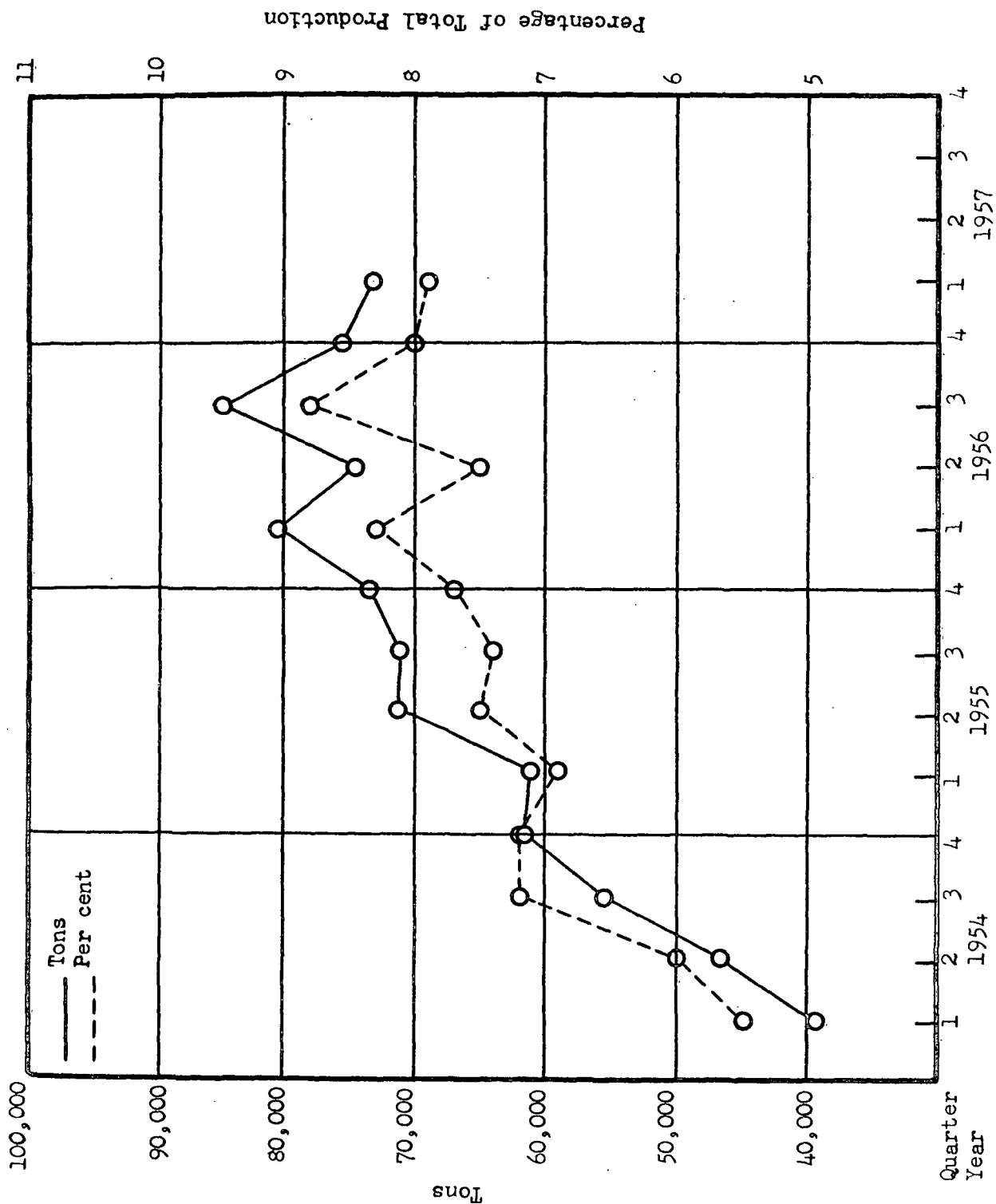


Figure 4. Production, 38-lb.

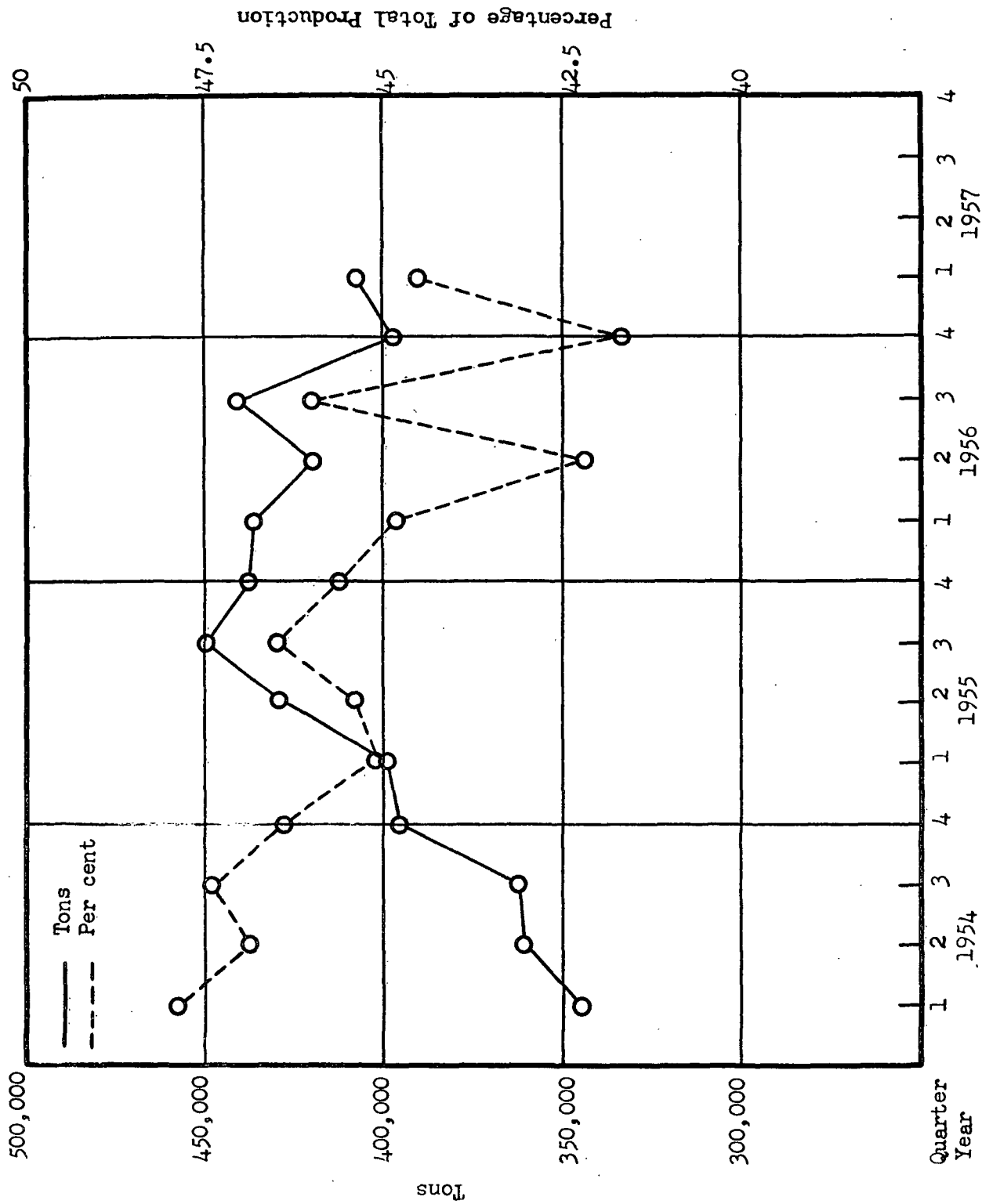


Figure 5. Production, 42-lb.

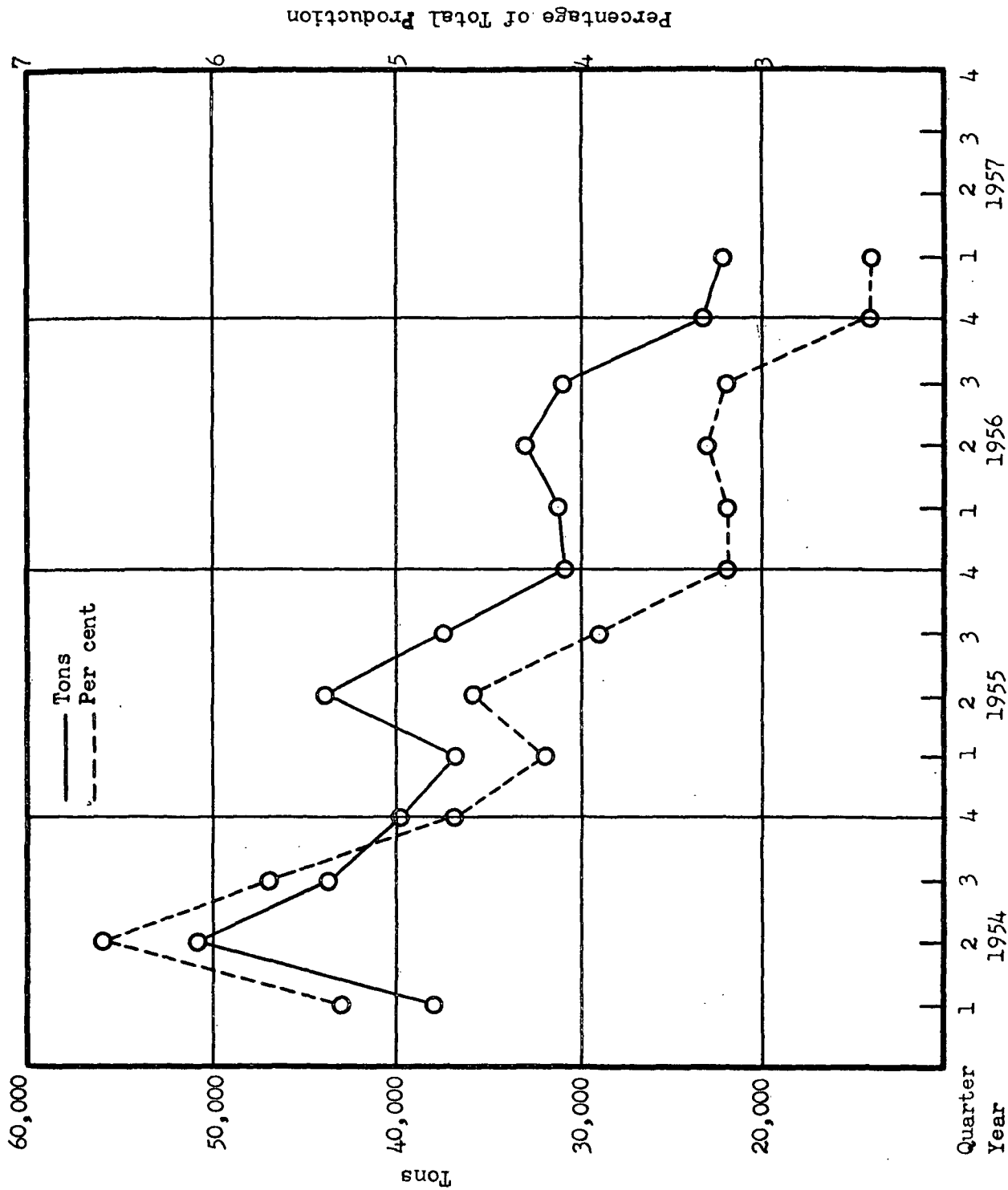


Figure 6. Production, 47-lb.

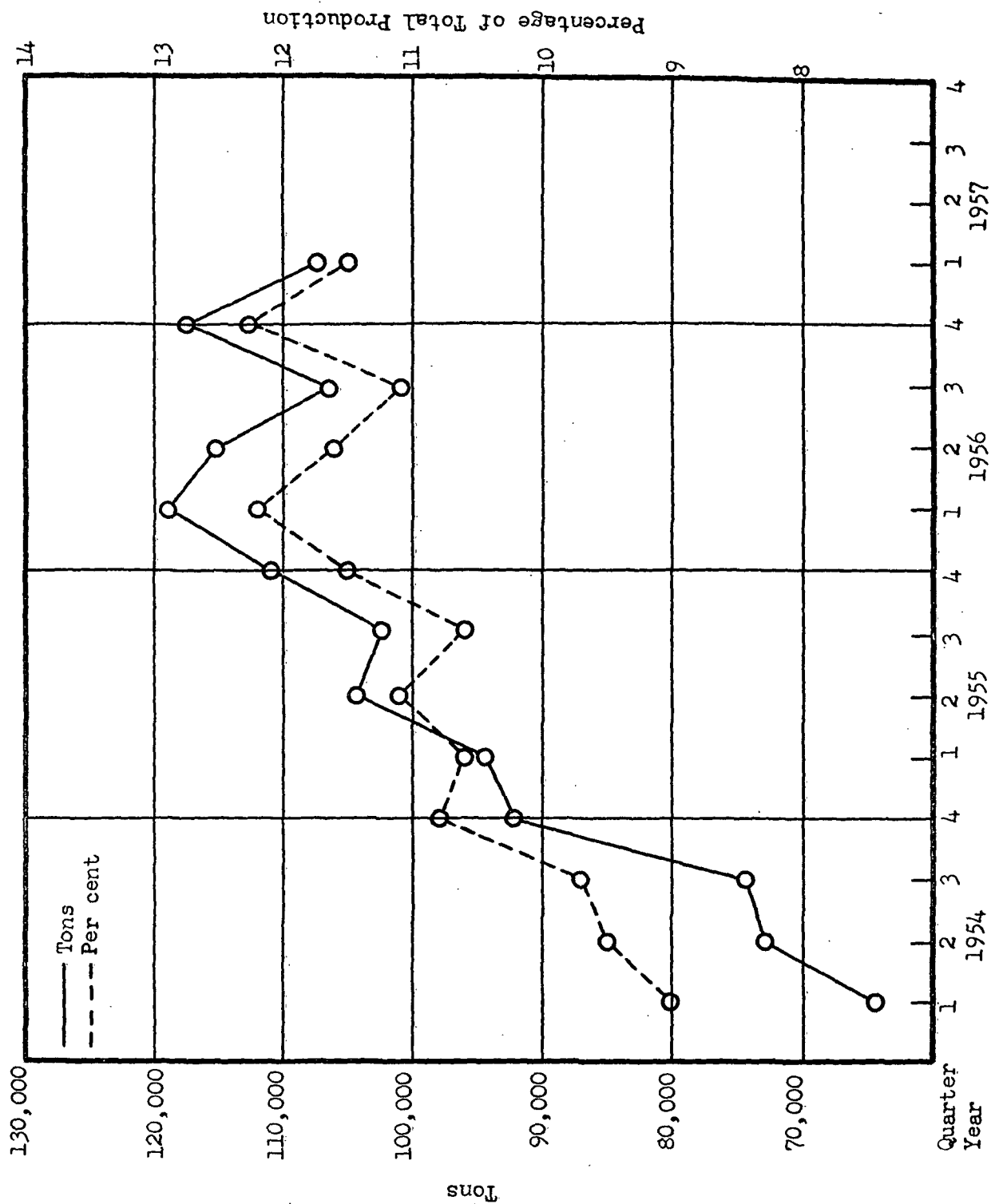


Figure 7. Production, 69-lb.

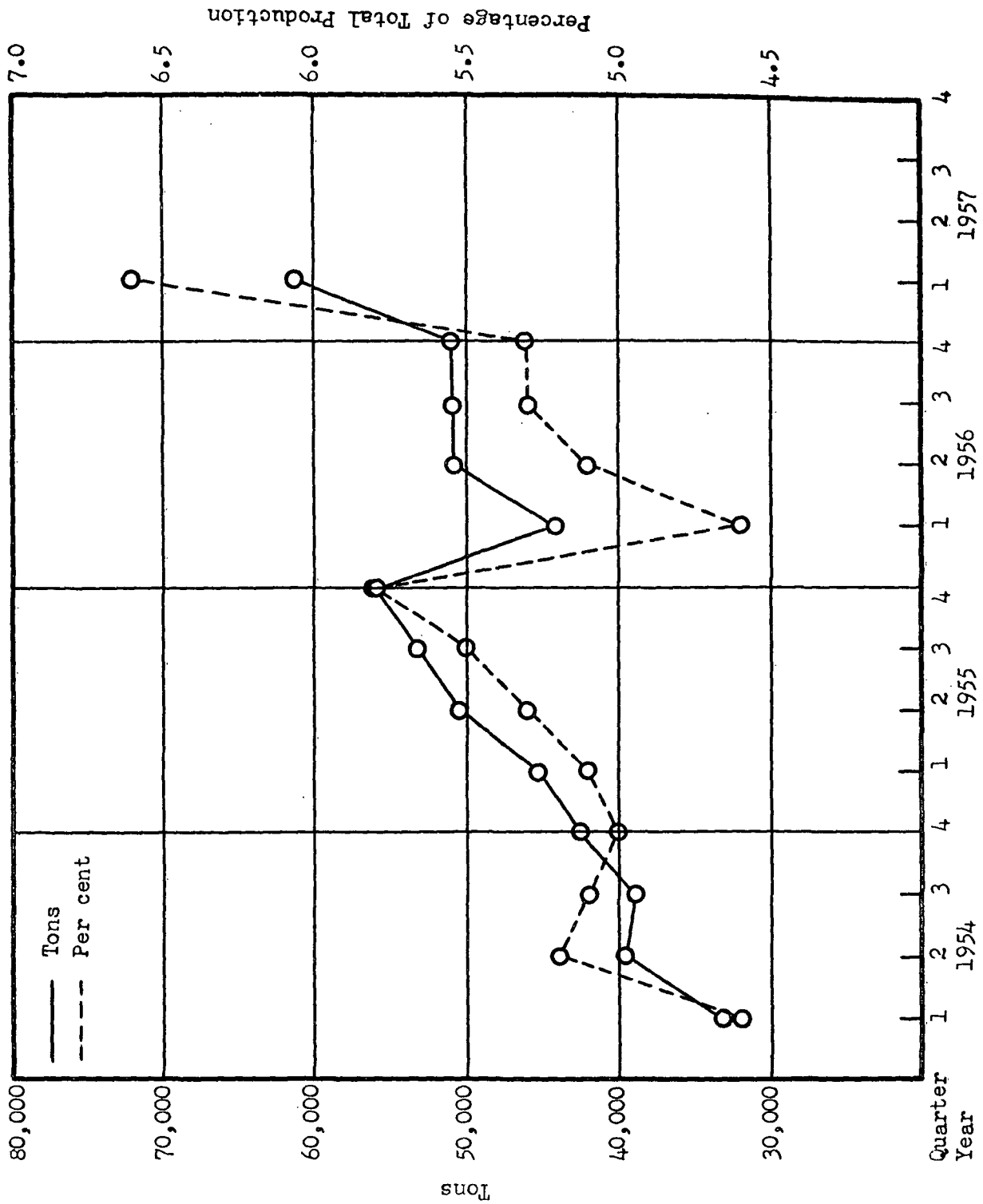


Figure 8. Production, 90-lb.

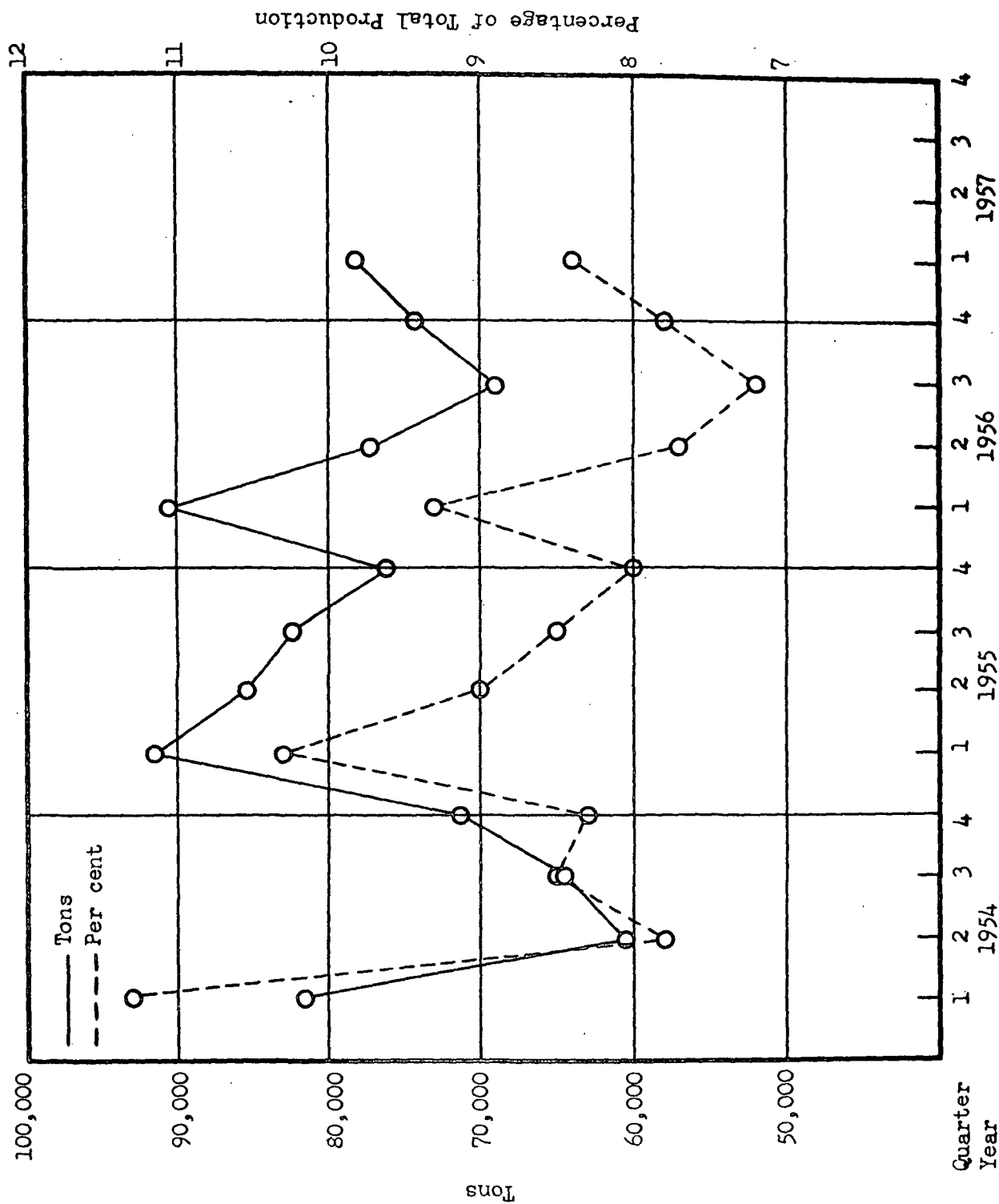


Figure 9. Production, Miscellaneous

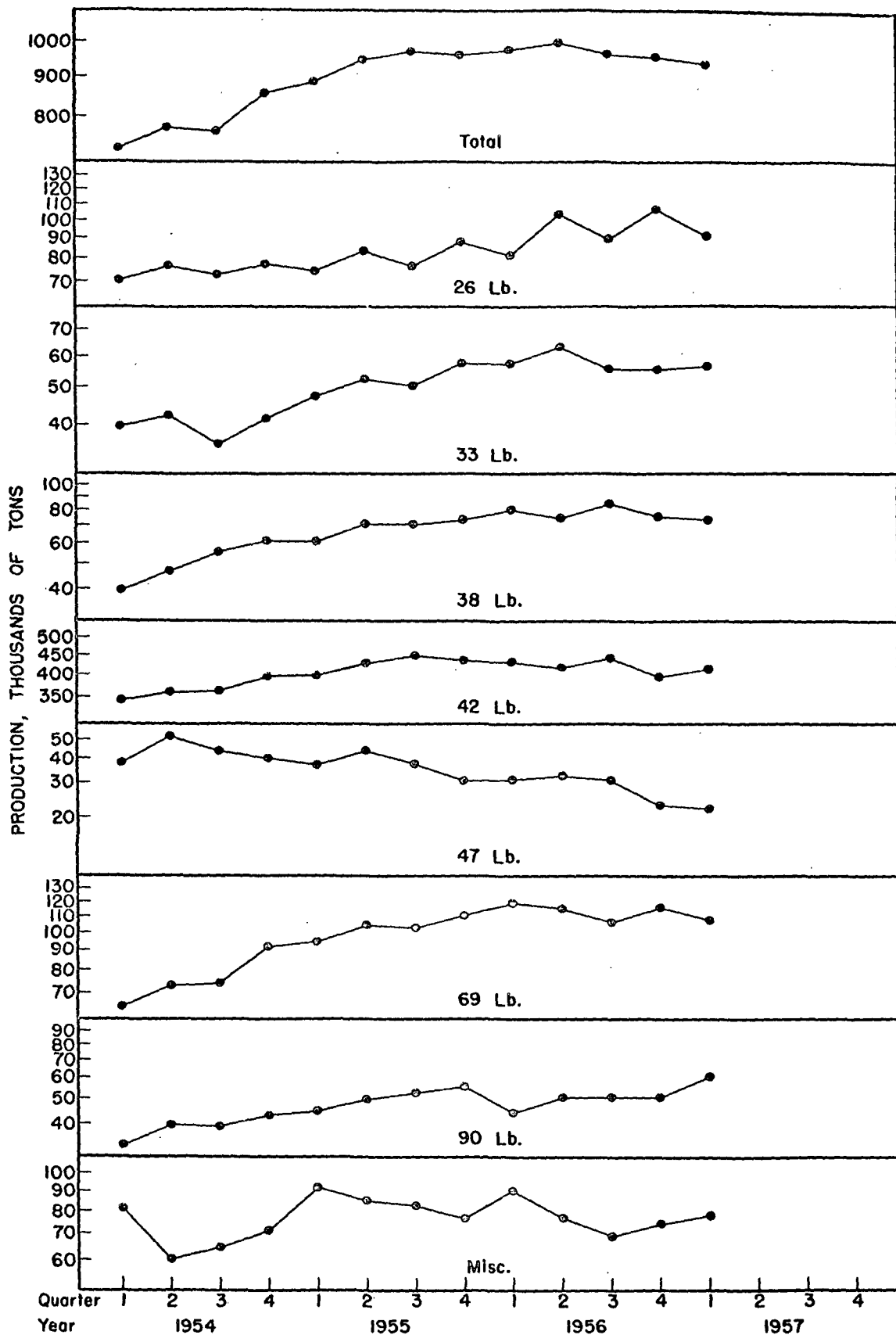


Figure 10. Comparison of Percentage Changes in Production for All Grades.